



TALLER ANTIDERIVADAS

1 | PROBLEMAS

El objetivo es encontrar la antiderivada de cada función.

1. $f(x) = x - 3$

2. $f(x) = \frac{1}{2}x^2 - 2x + 6$

3. $f(x) = \frac{1}{2} + \frac{3}{4}x^2 - \frac{4}{3}x^3$

4. $f(x) = 8x^9 - 3x^6 + 12x^3$

5. $f(x) = e^2$

6. $f(t) = \frac{3t^4 - t^3 + 6t^2}{t^4}$

7. $g(t) = \frac{1+t+t^2}{\sqrt{t}}$

8. $r(\theta) = \sec \theta \tan \theta - 2e^\theta$

9. $f(x) = \frac{x^5 - x^3 + 2x}{x^4}$

10. $f(x) = \frac{2+x^2}{1+x^2}$

11. $f(x) = 5x^4 - 2x^5, \quad F(0) = 4$

12. $f''(x) = 20x^3 - 12x^2 + 6x$

13. $f''(x) = \frac{3}{2}x^{2/3}$

14. $f''(x) = 6x + \sin x$

15. $f''(x) = \sin \theta + \cos \theta, \quad f(0) = 3, \quad f'(0) = 4$

16. $f''(x) = 4 + 6x + 24x^2, \quad f(0) = 3, \quad f'(1) = 10$